VxO

- 1. Virtual Observatories: A NASA initiative to sequentially revitalize data distribution and archiving: Responds to recommendation by NASA's Roadmap Committee
- 2. Based on competitively-funded community efforts and the concept of a distributed data system providing search, retrieval, portrayal, and analysis tools.
- 3. Status:

Funded: VSO (Virtual Solar Observatory) Community Meeting, 12/6/2002 AGU

Study (APL): Virtual ITM Observatory

Study (GSFC): Virtual Magnetospheric Obs.

Study (GSFC): Virtual Heliospheric Obs.

VSO FundingProfile

Year	US \$K
2002	160
2003	450
2004	453
2005	160
total	1223

Aspects of the VSO

(see umbra.nascom.nasa.gov/vso/)

Participants:

Montana State University (Martens)
Yohkoh
National Solar Observatory (Hill)
Gong, Gong+, Solis
Solar Data Analysis Center (Gurman)
SOHO
SDAC+\$→ SDO
Stanford University (Bogart)
MDI, Wilcox, Solar Obs.
Others (TBD)

Data	Query ←		Construct Engine	A P I	Access Options
Supplier	→ Result	Query Result Engine			Browser Interface

'VSO Basic Principles'

- 1. Construct a prototype
- 2. Build from the bottom up
- 3. Satisfy minimum requirements, not maximum
- 4. Base on community input
- 5. Search, Discovery, Query
- 6. Multiple interfaces
- 7. Leverage existing resources and services
- 8. Permit more experienced users to skip using VSO
- 9. Ability to expand

NO: Central Catalog, Grid computing, access restrictions

YES: Catalog Caching, multiple sites, logging searches to determine needs